

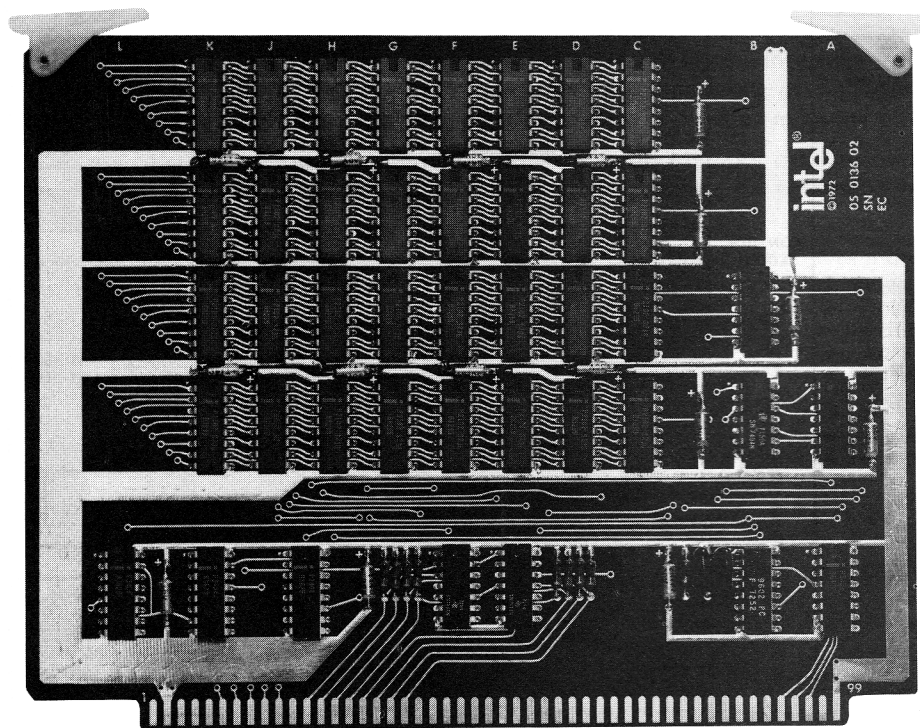
imm6-28 RAM MEMORY MODULE

- 4096 8-bit bytes per module
- Static memory, no clocks required
- Interfaces with imm4-42 4-bit Central Processor Module or the imm8-82 8-bit Central Processor Module
- Single +5V power supply
- Low power requirements
- Provides Intellec 4 with 4k bytes of read/write program memory
- For use in expansion of Intellec 8 systems to 16k bytes of memory
- Built-in decoding of module select for expansion to 65k bytes of memory

The imm6-28 RAM Memory Module is a standard 4k x 8 memory module designed for use with either the Intellec 4 or Intellec 8 Microcomputer Development Systems. This module contains address and data buffers, read/write timing circuits and is implemented with Intel's 2102 1k x 1 static RAM. Although the basic memory module is 4096 x 8, configurations as small as 1024 x 8 are also available.

When used with the imm4-42 4-bit Central Processor Module, as in the Intellec 4, the imm6-28 becomes a read/write program memory. This feature in the Intellec 4 greatly enhances the user's ability to quickly develop programs and bypasses the step of programming PROMs.

The imm6-28 RAM Memory Module is used with the MCS-8 Micro Processor in configurations of up to 16k bytes of memory (4 modules). The imm8-82 Central Processor Module directly interfaces with the imm6-28 RAM Memory Module with all module select decoding done directly on the connector. This allows an imm6-28 to be moved to any location within the 16k of memory without making any changes in the module. This built-in decoding allows additional expansion of memory by bank switching.



RAM Memory Module

RAM Memory Module Specifications

Memory Size:	4k bytes
Word Size:	8 bits
Memory Expansion:	To 65k bytes (16 modules)
Cycle Time:	900ns
Interface:	TTL compatible inputs; open collector outputs (positive true logic)
Capacity:	4096 bytes ⁽¹⁾
Connector:	Dual 50-pin on 0.125 in. centers. Connectors in rack must be positioned on 0.5 in. centers min. Wirewrap P/N C800100 from SAE P/N VPB01C50E00A1 from CDC
Board Dimensions:	6.18 in. x 8.0 in. x 0.062 in. Board to be on 0.5 in. centers minimum.
Operating Temperature:	0°C to 55°C
DC Power Requirement:	$V_{CC} = +5V \pm 5\%$, $I_{CC} = 2.5A$ max., 1.25A typical

⁽¹⁾ Memory configurations of 1k, 2k, or 3k bytes available on request.

imm6-28 Block Diagram

